BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division, Yelahanka Zone

SCHEDULE - B

Construction of Headroom, Overhead tank providing Sanitary water supply connections and Electrical works to Marriage Community hall building at Chikkabettahalli in ward No.03

SNo	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
1	27.66	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour .complete as per specifications and directions of the Engineer in charge.	Sqm	441.00	Rupees Four Hundred Forty One Only
2	12.48	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications and directions of the Engineer in charge.	Sqm	295.96	Rupees Two Hundred Ninety Five And Paise Ninety Six Only
3	18.15	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour ccomplete as per specifications and directions of the Engineer in charge.	Sqm	367.50	Rupees Three Hundred Sixty Seven And Paise Fifty Only
4	5.62	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing,complete as per specifications and directions of the Engineer in charge.(third Floor)	Cum	7552.86	Rupees Seven Thousand Five Hundred Fifty Two And Paise Eighty Six Only
5	0.73	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 complete as per specifications and directions of the Engineer in charge. (third Floor)	tonne	71881.04	Rupees Seventy One Thousand Eight Hundred Eighty One And Paise Four Only

Contractor

Executive Engineer
Project Division
Yelahanka Zone

Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore-64

	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
6	79.35	KSRB 5-14 : Providing and constructing precast concrete solid blocks having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing complete as per specifications and directions of the Engineer in charge.. with solid blocks size of 400X200X200mm.	Sqm	1189.72	Rupees One Thousand One Hundred Eighty Nine And Paise Seventy Two Only
7	3.88	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work	Sqm	829.08	Rupees Eight Hundred Twenty Nine And Paise Eight Only
8	15.07	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.(Ground Floor)	Sqm	255.78	Rupees Two Hundred Fifty Five And Paise Seventy Eight Only
9	15.07	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.(First Floor)	Sqm	261.66	Rupees Two Hundred Sixty One And Paise Sixty Six Only
10	83.37	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.(Third Floor)	Sqm	273.42	Rupees Two Hundred Seventy Three And Paise Forty Two Only
11	66.59	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing etc. complete as per specifications and directions of the Engineer in charge.(Ground Floor)	Sqm	193.06	Rupees One Hundred Ninety Three And Paise Six Only
12	14.40	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing etc.complete as per specifications and directions of the Engineer in charge.(First Floor)	Sqm	198.94	Rupees One Hundred Ninety Eight And Paise Ninety Four Only
13	39.33	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing etc.complete as per specifications and directions of the Engineer in charge.(Second Floor)	Sqm	204.82	Rupees Two Hundred Four And Paise Eighty Two Only

Contractor

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	83.37	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing etc. complete as per specifications and directions of the Engineer in charge.(Third Floor)	Sqm	210.70	Rupees Two Hundred Ten And Paise Seventy Only
15	20.90	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc. complete as per specifications and directions of the Engineer in charge.n.	Sqm	223.44	Rupees Two Hundred Twenty Three And Paise Forty Four Only
16	240.13	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (Ground Floor)	Sqm	181.30	Rupees One Hundred Eighty One And Paise Thirty Only
17	34.65	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (First Floor)	Sqm	188.16	Rupees One Hundred Eighty Eight And Paise Sixteen Only
18	86.62	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	194.04	Rupees One Hundred Ninety Four And Paise Four Only
19	2.07	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (Third Floor)	Sqm	198.94	Rupees One Hundred Ninety Eight And Paise Ninety Four Only
20	127.89	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour,complete as per specifications and directions of the Engineer in charge. (Ground Floor)	Sqm	1719.90	Rupees One Thousand Seven Hundred Nineteen And Paise Ninety Only
21	35.28	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour,complete as per specifications and directions of the Engineer in charge.(First Floor)	Sqm	1720.88	Rupees One Thousand Seven Hundred Twenty And Paise Eighty Eight Only

Contractor

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BBMP, Bangalore-64

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	93.66	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour,complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	1723.82	Rupees One Thousand Seven Hundred Twenty Three And Paise Eighty Two Only
23	2.07	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour,complete as per specifications and directions of the Engineer in charge.(ThirdFloor)	Sqm	1724.80	Rupees One Thousand Seven Hundred Twenty Four And Paise Eighty Only
24	99.85	Providing and fixing 20mm thick gang saw water cut LAKARED granite for Cladding in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specifications and directions of the Engineer in charge.(Ground Floor)	Sqm	4281.62	Rupees Four Thousand Two Hundred Eighty One And Paise Sixty Two Only
25	2.52	Providing and fixing 20mm thick gang saw water cut LAKARED granite for Cladding in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specifications and directions of the Engineer in charge. (First Floor)	Sqm	4283.58	Rupees Four Thousand Two Hundred Eighty Three And Paise Fifty Eight Only
26	3.99	Providing and fixing 20mm thick gang saw water cut LAKARED granite for Cladding in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	4285.54	Rupees Four Thousand Two Hundred Eighty Five And Paise Fifty Four Only
27	51.49	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete as per specifications and directions of the Engineer in charge.	Sqm	4620.70	Rupees Four Thousand Six Hundred Twenty And Paise Seventy Only

Contractor

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Executive Engineer 19/3/2021
Project Division
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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	106.66	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc complete as per specifications and directions of the Engineer in charge. (Ground Floor)	Sqm	4322.78	Rupees Four Thousand Three Hundred Twenty Two And Paise Seventy Eight Only
29	21.44	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etccomplete as per specifications and directions of the Engineer in charge.(Third Floor)	Sqm	4318.86	Rupees Four Thousand Three Hundred Eighteen And Paise Eighty Six Only
30	19.31	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specifications and directions of the Engineer in charge.	Sqm	1238.72	Rupees One Thousand Two Hundred Thirty Eight And Paise Seventy Two Only
31	11.44	KSRB 14.14-5: Providing Ceramic tiles of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Specification No. KBS _do_ for Ceramic Tiles of size 30x30cms 6mm thick .complete as per specifications and directions of the Engineer in charge. (Ground Floor)	Sqm	1362.20	Rupees One Thousand Three Hundred Sixty Two And Paise Twenty Only
32	7.20	KSRB 14.14-5: Providing Ceramic tiles of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Specification No. KBS _do_ for Ceramic Tiles of size 30x30cms 6mm thick .complete as per specifications and directions of the Engineer in charge. (First Floor)	Sqm	1365.14	Rupees One Thousand Three Hundred Sixty Five And Paise Fourteen Only

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	16.68	KSRB 14.14-5: Providing Ceramic tiles of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Specification No. KBS _do_ for Ceramic Tiles of size 30x30cms 6mm thick .complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	1366.12	Rupees One Thousand Three Hundred Sixty Six And Paise Twelve Only
34	20.90	KSRB 10-2 : Providing and laying in position yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	934.92	Rupees Nine Hundred Thirty Four And Paise Ninety Two Only
35	359.45	KSRB 10-2 : Providing and laying in position yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications and directions of the Engineer in charge. (Third Floor)	Sqm	936.88	Rupees Nine Hundred Thirty Six And Paise Eighty Eight Only
36	1.44	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using	Sqm	4851.00	Rupees Four Thousand Eight Hundred Fifty One Only

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19/2/2020

Contractor

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
37	0.36	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using	Sqm	4851.00	Rupees Four Thousand Eight Hundred Fifty One Only
38	19.50	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using	Sqm	4856.88	Rupees Four Thousand Eight Hundred Fifty Six And Paise Eighty Eight Only

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Contractor

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
39	0.72	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using	Sqm	4862.76	Rupees Four Thousand Eight Hundred Sixty Two And Paise Seventy Six Only
40	9.45	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications.complete as per specifications (excluding cost of fixtures) and directions of the Engineer in charge. (Ground Floor)	Sqm	5380.20	Rupees Five Thousand Three Hundred Eighty And Paise Twenty Only
41	5.67	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications (excluding cost of fixtures) and directions of the Engineer in charge. (First Floor)	Sqm	5384.12	Rupees Five Thousand Three Hundred Eighty Four And Paise Twelve Only
42	13.23	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) and directions of the Engineer in charge.	Sqm	5388.04	Rupees Five Thousand Three Hundred Eighty Eight And Paise Four Only

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Contractor

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
43	12.60	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding	Sqm	4635.40	Rupees Four Thousand Six Hundred Thirty Five And Paise Forty Only
44	3.15	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding	Sqm	4639.32	Rupees Four Thousand Six Hundred Thirty Nine And Paise Thirty Two Only

H.V.Y

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

19/12/2020

Contractor

Executive Engineer
Project Division
Yelahanka Zone

	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
45	11.02	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding	Sqm	4642.26	Rupees Four Thousand Six Hundred Forty Two And Paise Twenty Six Only
46	3.22	KSRB 9.7-1: Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM ofmachineries complete as per specifications. (excluding cost of fixtures) s and directions of the Engineer in charge (First Floor)	Sqm	8494.64	Rupees Eight Thousand Four Hundred Ninety Four And Paise Sixty Four Only
47	7.08	KSRB 9.7-1: Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM ofmachineries complete as per specifications. (excluding cost of fixtures) and directions of the Engineer in charge (Second Floor)	Sqm	8498.56	Rupees Eight Thousand Four Hundred Ninety Eight And Paise Fifty Six Only
48	25.11	Providing melamine polishing of approved shade includingremoving and refixing of doors shutters, glass, beading andexisting polishing scraping with blade and rubbing with zero size sand paper and applying sealer coat by way of spraying with necessary compressor and applying patty after rubbing with steel wool including two coats of approved shade of melamine polish etc complete as per specifications and directions of the Engineer in charge	Sqm	1051.54	Rupees One Thousand Fifty One And Paise Fifty Four Only
49	23.18	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and directions of the Engineer in charge	Sqm	97.02	Rupees Ninety Seven And Paise Two Only

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	Quantity	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	38.80	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., c complete as per specifications and directions of the Engineer in charge	Sqm	7123.62	Rupees Seven Thousand One Hundred Twenty Three And Paise Sixty Two Only
51	14.37	KSRB 7.3 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. Double leaf door of size 2.4x2.4m. complete as per specifications and directions of the Engineer in charge	Sqm	2701.86	Rupees Two Thousand Seven Hundred One And Paise Eighty Six Only
52	24.75	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. complete as per specifications and directions of the Engineer in charge	Sqm	891.80	Rupees Eight Hundred Ninety One And Paise Eighty Only
53	902.48	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specifications and directions of the Engineer in charge	kgs	127.40	Rupees One Hundred Twenty Seven And Paise Forty Only

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	2499.07	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as complete as per specifications and directions of the Engineer in charge	Sqm	64.68	Rupees Sixty Four And Paise Sixty Eight Only
55	861.29	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. complete as per specifications and directions of the Engineer in charge	Sqm	103.88	Rupees One Hundred Three And Paise Eighty Eight Only
56	885.59	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall suface with wire brush of medium size emery stone to remove all the loosely adhering particales Pg No complete as per specifications and directions of the Engineer in charge	Sqm	402.78	Rupees Four Hundred Two And Paise Seventy Eight Only
57	752.18	KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof complete as per specifications and directions of the Engineer in charge	Sqm	88.20	Rupees Eighty Eight And Paise Twenty Only
58	30.24	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and directions of the Engineer in charge	kgs	107.80	Rupees One Hundred Seven And Paise Eighty Only
59	235.88	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, co complete as per specifications and directions of the Engineer in charge	Sqm	95.06	Rupees Ninety Five And Paise Six Only
60	123.00	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge	Cum	6422.92	Rupees Six Thousand Four Hundred Twenty Two And Paise Ninety Two Only

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	Qty	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	1368.09	Pg No.147 Item No.19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) complete as per specifications and directions of the Engineer in charge	Cum	349.86	Rupees Three Hundred Forty Nine And Paise Eighty Six Only
62	37.69	KSRB 2-2.5 : Excavation by manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in Hard Rock not exceeding 1.5 m. in depth including Stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications and directions of the Engineer in charge	Cum	594.86	Rupees Five Hundred Ninety Four And Paise Eighty Six Only
63	1.97	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge	cum	5640.88	Rupees Five Thousand Six Hundred Forty And Paise Eighty Eight Only
64	24.48	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labou complete as per specifications and directions of the Engineer in charge	Cum	147.00	Rupees One Hundred Forty Seven Only
65	43.52	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications and directions of the Engineer in charge	Sqm	267.54	Rupees Two Hundred Sixty Seven And Paise Fifty Four Only
66	11.07	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 7 mtrs. Specification No. KBS 4.6.2, Item No. 4.29.4, Page No. 15	Sqm	1030.96	Rupees One Thousand Thirty And Paise Ninety Six Only

H.V.Y

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
67	12.09	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and First Floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications and directions of the Engineer in charge	Cum	7208.88	Rupees Seven Thousand Two Hundred Eight And Paise Eighty Eight Only
68	1.57	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge	tonne	70239.54	Rupees Seventy Thousand Two Hundred Thirty Nine And Paise Fifty Four Only
69	8.00	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications and directions of the Engineer in charge	No.s	303.80	Rupees Three Hundred Three And Paise Eighty Only
70	7.69	Pg No 134,Item No17.4 Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.	Cum	234.22	Rupees Two Hundred Thirty Four And Paise Twenty Two Only
71	43.90	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per specifications and directions of the Engineer in charge	Sqm	684.04	Rupees Six Hundred Eighty Four And Paise Four Only

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	35.04	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications and directions of the Engineer in charge	Sqm	339.08	Rupees Three Hundred Thirty Nine And Paise Eight Only
73	8.64	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications and directions of the Engineer in charge	Sqm	362.60	Rupees Three Hundred Sixty Two And Paise Sixty Only
74	1.50	KSRB 11-18-1.1 : Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications and directions of the Engineer in charge	m	815.36	Rupees Eight Hundred Fifteen And Paise Thirty Six Only
75	4000.00	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. complete as per specifications and directions of the Engineer in charge	L	6.86	Rupees Six And Paise Eighty Six Only
76	23.00	KSRB13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge	Each	281.26	Rupees Two Hundred Eighty One And Paise Twenty Six Only
77	17.00	KSRB 11-6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed / vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications and directions of the Engineer in charge	Each	5741.82	Rupees Five Thousand Seven Hundred Forty One And Paise Eighty Two Only
78	17.00	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications and directions of the Engineer in charge	unit	4504.08	Rupees Four Thousand Five Hundred Four And Paise Eight Only
79	5.00	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications and directions of the Engineer in charge	unit	7891.94	Rupees Seven Thousand Eight Hundred Ninety One And Paise Ninety Four Only

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
		KSRB 11-17-1 : Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications and directions of the Engineer in charge	unit	907.48	Rupees Nine Hundred Seven And Paise Forty Eight Only
	17.00	KSRB 11-15.5 : Providing and fixing 1500x450mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications and directions of the Engineer in charge	unit	907.48	Rupees Nine Hundred Seven And Paise Forty Eight Only
82	39.00	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5cms x 7.5cms complete as per specifications and directions of the Engineer in charge	Each	330.26	Rupees Three Hundred Thirty And Paise Twenty Six Only
83	15.00	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm. complete as per specifications and directions of the Engineer in charge	No.s	10377.22	Rupees Ten Thousand Three Hundred Seventy Seven And Paise Twenty Two Only
84	12.00	KSRB13-6.2-4 : Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge	Each	183.26	Rupees One Hundred Eighty Three And Paise Twenty Six Only
85	12.00	KSRB13-6.3-4 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge	Each	1127.00	Rupees One Thousand One Hundred Twenty Seven Only
86	67.20	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and directions of the Engineer in charge	Cum	218.54	Rupees Two Hundred Eighteen And Paise Fifty Four Only

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	Qty	Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	35.00	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications and directions of the Engineer in charge	Rmt	408.66	Rupees Four Hundred Eight And Paise Sixty Six Only
88	67.20	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labou complete as per specifications and directions of the Engineer in charge	Cum	88.20	Rupees Eighty Eight And Paise Twenty Only
89	15.00	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead). - 15cms x 10cms complete as per specifications and directions of the Engineer in charge	Each	312.62	Rupees Three Hundred Twelve And Paise Sixty Two Only
90	40.00	KSRB13-1.6 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications and directions of the Engineer in charge	Rmt	590.94	Rupees Five Hundred Ninety And Paise Ninety Four Only
91	4.00	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge	Nos	1734.60	Rupees One Thousand Seven Hundred Thirty Four And Paise Sixty Only
92	110.00	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 50mm nominal OD pipes. complete as per specifications and directions of the Engineer in charge	m	509.60	Rupees Five Hundred Nine And Paise Sixty Only
93	110.00	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. complete as per specifications and directions of the Engineer in charge	m	196.98	Rupees One Hundred Ninety Six And Paise Ninety Eight Only
94	170.00	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia complete as per specifications and directions of the Engineer in charge	m	796.74	Rupees Seven Hundred Ninety Six And Paise Seventy Four Only

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		Item Name	Unit	Approved Rates of H V ONKARAPPA	
				In figures	In words
	1680.00	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia complete as per specifications and directions of the Engineer in charge	m	1680.70	Rupees One Thousand Six Hundred Eighty And Paise Seventy Only
96	200.00	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick complete as per specifications and directions of the Engineer in charge	Mtrs	46.06	Rupees Forty Six And Paise Six Only
97	650.00	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick complete as per specifications and directions of the Engineer in charge	Mtrs	60.76	Rupees Sixty And Paise Seventy Six Only
98	85.00	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.19/20mm dia 2mm thick complete as per specifications and directions of the Engineer in charge	Mtrs	59.78	Rupees Fifty Nine And Paise Seventy Eight Only
99	90.00	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary 25mm dia 2mm thick complete as per specifications and directions of the Engineer in charge	Mtr	62.72	Rupees Sixty Two And Paise Seventy Two Only
100	100.00	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary 25mm deep junction box complete as per specifications and directions of the Engineer in charge	Each	98.00	Rupees Ninety Eight Only
101	45.00	Supplying And Fixing Metal Fan Box with Round Hook. complete as per specifications and directions of the Engineer in charge	Nos	98.00	Rupees Ninety Eight Only

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